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1. SB153-001: Soft Bio-Interfaces for Physiological Sensing and Modulation

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

* PROPOSALS ACCEPTED: Phase I and DP2 (Direct to Phase II). Please see the 15.3 DoD Program Solicitation and the DARPA 15.3 Phase I Instructions for Phase I requirements and proposal instructions.* TECHNOLOGY AREA(S): Biomedical, Sensors OBJECTIVE: Develop and demonstrate clinically-viable bio-interface technologies that have mechanical properties similar to tissue, yet can interface wit ...

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2. SB153-002: GHz, Octavespanning Photodetectors for MWIR/LWIR

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Chemical/Biological Defense, Electronics The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in acc ...

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3. SB153-003: Tunable Cyber Defensive Security Mechanisms

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, Information Systems OBJECTIVE: Define new cyber techniques and develop technologies for automatically generating and injecting realistic vulnerabilities into large code bases for the purpose of testing and evaluating cyber security tools and capabilities, and to enable novel pedagogical tools such as customized capture-the-flag competitions. DESCRIPTION: ...

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4. SB153-004: High-Sample Rate Analog to Digital Converters for Reconfigurable Phased Array Applications

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

* PROPOSALS ACCEPTED: Phase I and DP2 (Direct to Phase II). Please see the 15.3 DoD Program Solicitation and the DARPA 15.3 Phase I Instructions for Phase I requirements and proposal instructions.* TECHNOLOGY AREA(S): Electronics, Sensors OBJECTIVE: Develop high-sample rate, low power, analog-to-digital converters (ADCs) for elemental digital phased array antennas. By the end of Phase II ...

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5. [SB153-005: Conformal, Random Access Beam Steering for Broadband Systems](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform, Sensors OBJECTIVE: Demonstrate a conformal, thin, broadband and rapid optical beam steering device without gimbals. DESCRIPTION: There is a critical DoD need for a new class of broadband, random access electro-optic sensors on lightweight, airborne platforms. A conformal, thin, broadband and rapid steering beam steering device would overcome the usual, d ...

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6. [SB153-006: Medium Caliber Projectile Conformal Antenna RF Seeker](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, Sensors The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section ...

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7. [SB152-001: Cell Free Platforms for Prototyping and Biomanufacturing](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

There is a critical need for capabilities that will enable DoD to leverage the unique and powerful attributes of biology to solve challenges associated with production of new materials, novel capabilities, fuels, and medicines. This topic is focused on improving the utility of cell-free systems as a platform technology to address key technical hurdles associated with current practices in engineeri ...

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8. [SB152-002: Cortical Modem Systems Integration and Packaging](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The DoD has a critical need for breakthrough medical therapies to treat wounded warriors with multiple comorbidities of sensory organs. This topic seeks to integrate state-of-the-art electronics, packaging, and passivation technologies with the latest low-power data and power delivery semiconductor components in a single package. In other words, DARPA seeks to wirelessly bridge cortical neural act ...

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9. [SB152-003: Broadband Self-calibrated Rydberg-based RF Electric Field and Power Sensor](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

There is a critical need for capabilities that will enable the DoD to have self-calibrated electric field and power sensors in the RF, microwave, and millimeter-wavelength regimes. This topic seeks the demonstration of a portable broadband (1 GHz – 1 THz) electric field, power sensor, or key components towards a device. The sensor should be capable of operating in greater than 1 kV/m electric fi ...

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10. [SB152-004: Many-Core Acceleration of Common Graph Programming Frameworks](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Today there is a DoD need for graph analytics capabilities, which are critical for a large range of application domains with a vital impact on both national security and the national economy, including, among others: counter-terrorism; fraud detection; drug discovery; cyber-security; social media; logistics and supply chains; e-commerce, etc. Widely used graph development frameworks have enabled o ...

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